## WHAT IS CLAIMED IS:

- 1 A method comprising:
- collecting information in a network device; 2
- determining in the network device when to transmit a 3
- subset of the collected information to a collection system; 4
- 5 and
- determining in the network device the subset of the 6
- collected information to be transmitted at a given time. 7
- 2. The method of claim 1 in which the collected information 1 : 15
- 2 comprises values stored in counters.
- 1 3. The method of claim 1 in which the subset represents a value
  - of a counter.
- 1 2 4. The method of claim 1 in which the subset represents values
  - of multiple counters.
  - 5. The method of claim 1 in which determining when to send is
  - 2 user-configurable.
  - 6. The method of claim 1 in which determining when to send 1
  - comprises: 2

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- determining a low peak period of a network operation; and 3
- 4 sending the subset during the low peak period.

- of the collected information with an identifier. 2
- 8. The method of claim 7 further comprising using a locally 1
- significant tag value as the identifier. 2
- 9. The method of claim 8 wherein the locally significant tag 1
- value is an array index. 2
- 10. The method of claim 9 further comprising associating the 1
- locally significant value of the tag with the globally 2
- significant value of the identifier and announcing the
- 3 association through a communications channel of a computer
- 5 network system.
  - 11. The method of claim 10 in which a communication channel
- The state and the state of the used to announce tag and identifier associations is the
  - channel used to transmit collected information.
  - 12. The method of claim 1 in which the collected information 1
  - that is unchanged is not transmitted from the network device 2
  - to the collection system. 3
  - 13. The method of claim 1 further comprising sending 1
  - acknowledgements from the collection system to the network 2
  - device when the collection system receives the collected 3
  - information. 4

- 14. The method of claim 1 in which the collected information is 1
- reported periodically. 2
- 15. The method of claim 1 further comprising establishing a 1
- signaling phase between the network device and the collection 2
- 3 system prior to sending the collected information.
- 1 16. The method of claim 15 in which the signaling phase
- 2 includes exchanging information relating to transfer and
- authentication of the collected information sent between the 3
- network device and the collection system through a
- communications channel.
- 4 5 17. The method of claim 16 in which the communications channel
  - comprises a secure connection.
- 2 18. The method of claim 1 in which the collected information
- 1 2 comprises event logging records. 114
  - 19.A system comprising: 1

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- a collection system coupled to a network device through a 2
- communications channel of a computer network system; 3
- a network device collecting information and configured to 4
- determine when to send a subset of the collected information 5
- to a collection system; and 6
- determine in the network device a subset of the collected 7
- information to be transmitted at a given time. 8

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- 1 20. The system of claim 19 in which the collected information
- 2 comprises values stored in counters.
- 1 21. The system of claim 20 in which the subset is a value of a
- 2 counter.
- 1 22. The system of claim 20 in which the subset is a value of
- 2 multiple counters.
- 1 23. The system of claim 19 in which the network device is
- 2 configured to determine when to send a subset of the collected
- 3 information.
- 1 24. The system of claim 19 in which the network device being
- 2 configured to determine when to send includes the network
- 3 device being configured to:
- determine a low peak period of a network operation; and
- 5 send the subset during the low peak period.
- 1 25. The system of claim 19 in which the value of the collected
- 2 information is transmitted with an identifier.